ELSEVIER

Journal of Molecular Catalysis 89 (1994) 407–409

JOURNAL OF MOLECULAR CATALYSIS

Author Index

Aguado, M.A., Anderson, M.A. and Hill, Jr., C.G.
Influence of light intensity and membrane properties on the photocatalytic degradation of formic acid over TiO_2 ceramic membranes 165

Ahmad, F.B.H., Ambar Yarmo, M. and Alimuniar, A.
Co-metathesis reaction of methyl linoleate with ethene over WCl_6 catalyst 357

Ai, M., see Muneyama, E. 371

Alimuniar, A., see Ahmad, F.B.H. 357

Altomare, A., see Conti, G. 41

Ambar Yarmo, M., see Ahmad, F.B.H. 357

Anderson, M.A., see Aguado, M.A. 165

Angelescu, E., see Pârvulescu, V.I. 267

Arribas, G., see Conti, G. 41

Ballistreri, F.P., Tomaselli, G.A., Toscano, R.M., Conte, V. and Furia, F.D.
Spectroscopic and structural properties of some molybdenum and tungsten polyoxoperoxo complexes. A comparison with mononuclear complexes 295

Bassoli, A., Cenini, S., Farina, F., Orlandi, M. and Rindone, B.
Triruthenium dodecacarbonyl-catalyzed reductive carbonylation of nitroarenes: cyclization, carbon monoxide insertion and reduction. An overview 121

Bernal, S., see Laachir, A. 391

Berthier, Y., see Pradier, C.M. 211

Bes, M.T., see Vigara, A.J. 257

Bianchi, M., see Salvini, A. 77

Bielański, A., see Hasik, M. 329

Boelrijk, A.E.M. and Reedijk, J.
Oxidation of methyl- and octyl-α-D-glucopyranoside, catalyzed by high-valent ruthenium species; RuO_4, RuO_4^- and RuO_4^{2-}. 63

Bond, G.C. and Slaa, J.C.
Studies on ruthenium catalysts. Part 4: Hydrogenolysis of *n*-butane on Ru/Al_2O_3 catalysts–dependence of reaction kinetics on particle size and on pretreatment 221

Calvino, J.J., see Laachir, A. 391

Cativiela, C., Fraile, J.M., García, J.I., Mayoral, J.A., Pires, E. and Figueras, F.
Heterogeneous catalysis of asymmetric Diels–Alder reactions 159

Cavinato, G., Toniolo, L. and Vavasori, A.
Synthesis of γ-ketocarboxylic acids via reduction of γ-keto-α-hydroxycarboxylic acids with carbon monoxide catalyzed by a Pd–HCl system 93

Cenini, S., see Bassoli, A. 121

Cernia, E., Palocci, C., Gasparrini, F., Misiti, D. and Fagnano, N.
Enantioselectivity and reactivity of immobilized lipase in supercritical carbon dioxide 11

Che, C.-M., see Lee, W.-O. 57

Chen, Y.-W., see Tu, Y.-J. 179

Chendong, W., see Rong, C. 345

Ciardelli, F., see Conti, G. 41

Cifredo, G.A., see Laachir, A. 391

Claridge, J.B., Douthwaite, R.E., Green, M.L.H., Lago, R.M., Tsang, S.C. and York, A.P.E.
Studies on a new catalyst for the hydroformylation of alkenes using C_{60} as a ligand 113

Conte, V., see Ballistreri, F.P. 295

Conti, G., Arribas, G., Altomare, A. and Ciardelli, F.
Influence of ligands and cocatalyst on the activity in ethylene polymerization of soluble titanium complexes 41

Douthwaite, R.E., see Claridge, J.B. 113

Drago, R.S., Petrosius, S.C. and Kaufman, P.B.
Alkylation, isomerization and cracking activity of a novel solid acid, $AlCl_2(SG)_n$ 317

Dziembaj, R., see Hasik, M. 329

Fagnano, N., see Cernia, E. 11

Farina, F., see Bassoli, A. 121

Figueras, F., see Cativiela, C. 159

Filoti, G., see Pârvulescu, V.I. 267

Ford, P.C., see Mdleleni, M.M. 283

Fraile, J.M., see Cativiela, C. 159
Frediani, P., see Salvini, A. 77
Fukushima, M., see Ohkubo, K. 5
Furia, F.D., see Ballistreri, F.P. 295
García, J.I., see Cativiela, C. 159
Gasparrini, F., see Cernia, E. 11
Gelo, M., see Kolarić, S. 247
Geneste, P., see Goux, A. 383
Gerli, A. and Reedijk, J.
Electrocatalytic activity of $[(bpy)_2(H_2O)Ru^{III}ORu^{III}(H_2O)(bpy)_2]^{4+}$ towards sugar oxidation 101
Gómez-Moreno, C., see Vigara, A.J. 257
Goux, A., Geneste, P. and Moreau, P.
Liquid-phase alkylthiolation reaction of phenol by dimethyldisulfide over zeolites 383
Grecu, N., see Pârvulescu, V.I. 267
Green, M.L.H., see Claridge, J.B. 113
Grobelny, R., see Krompiec, S. 303
Hagihara, K., see Tominaga, K.-I. 51
Hamada, T., see Ohkubo, K. 5
Hasik, M., Poźniczek, J., Piwowarska, Z., Dziembaj, R., Bielański, A. and Proń, A.
Catalytic conversion of ethyl alcohol on polyaniline protonated with 12-tungstosilicic acid 329
Heras, A., see Martín, M.T. 397
Hill, Jr., C.G., see Aguado, M.A. 165
Ishida, H., see Ohkubo, K. 5
Itoh, K., see Kushino, Y. 151
Jane, Y.-S. and Shih, J.-S.
Crown ether phase-transfer catalysts for polymerization of phenylacetylene 29
Kaufman, P.B., see Drago, R.S. 317
Kelly, E.J., Patterson, W.R. and Rooney, J.J.
Mobility of transient olefinic intermediates during exchange reactions of paraffins with deuterium on metal catalysts 19
Kladi, A., see Zhang, Z.L. 229
Kolarić, S., Gelo, M., Sanković, M. and Šunjić, V.
Heptamolybdate-ion catalyzed C(2) epimerization of D-mannose to D-glucose in acetonitrile–water mixtures; a kinetic study 247
Krompiec, S., Suwiński, J. and Grobelny, R.
Isomerization of 3-functional substituted propenes in the presence of ruthenium (III) 1,3-diketonates 303
Kunishige, A., see Muneyama, E. 371
Kushino, Y., Itoh, K., Miura, M. and Nomura, M.
Palladium-catalyzed hydroesterification of alkynes in the presence of *p*-toluenesulfonic acid under a normal pressure of carbon monoxide 151
Laachir, A., Perrichon, V., Bernal, S., Calvino, J.J. and Cifredo, G.A.
Study of the CO–CeO_2 interaction in presence of highly dispersed rhodium 391
Lago, R.M., see Claridge, J.B. 113
Lee, W.-O., Che, C.-M. and Wong, K.-Y.
Electronic and kinetic isotope effects on the electrooxidation of benzyl alcohols by a monoxo ruthenium(V) complex of tetramethylcyclam 57
Li, C., see Tu, Y.-J. 179
Logan, S.R.
Deuterium exchange of pyrrolidine, diethylamine and triethylamine over catalysts of Group VIII transition metals 365
Makita, K., Nomura, K. and Saito, Y.
Photocatalytic dehydrogenation of methanol using $[IrH(SnCl_3)_5]^{3-}$ complex 143
Martín, M.T., Sinisterra, J.V. and Heras, A.
Effect of lyophilization and subsequent rehydration of immobilized α-chymotrypsin derivatives 397
Mayoral, J.A., see Cativiela, C. 159
Mazina, M., see Pradier, C.M. 211
Mdleleni, M.M., Rinker, R.G. and Ford, P.C.
Catalysis of the water gas shift reaction by polymer-immobilized rhodium complexes 283
Misiti, D., see Cernia, E. 11
Mitchell, R.S., see Weigert, F.J. 191
Mitchell, R.S., see Weigert, F.J. 201
Miura, M., see Kushino, Y. 151
Moreau, P., see Goux, A. 383
Muneyama, E., Kunishige, A., Ohdan, K. and Ai, M.
Oxidative dehydrogenation of isobutyraldehyde to methacrolein over iron phosphate catalyst 371
Nicolescu, I.V., see Pârvulescu, V.I. 267
Nomura, K., see Makita, K. 143
Nomura, M., see Kushino, Y. 151
Ohdan, K., see Muneyama, E. 371
Ohkubo, K., Hamada, T., Ishida, H., Fukushima, M. and Watanabe, M.
Stereoselective molecular recognition of enantiomeric cobalt(III) complexes by novel photosensitizers of helical ruthenium(II) complexes 5
Orlandi, M., see Bassoli, A. 121
Oudar, J., see Pradier, C.M. 211
Palocci, C., see Cernia, E. 11
Pârvulescu, V., see Pârvulescu, V.I. 267
Pârvulescu, V.I., Filoti, G., Pârvulescu, V., Grecu, N., Angelescu, E. and Nicolescu, I.V.

Styrene hydrogenation on supported Pd, Fe and Pd-Fe/γ-Al_2O_3 catalysts 267
Patterson, W.R., see Kelly, E.J. 19
Perrichon, V., see Laachir, A. 391
Petrosius, S.C., see Drago, R.S. 317
Piacenti, F., see Salvini, A. 77
Pires, E., see Cativiela, C. 159
Piwowarska, Z., see Hasik, M. 329
Poźniczek, J., see Hasik, M. 329
Pradier, C.M., Mazina, M., Berthier, Y. and Oudar, J.
Hydrogenation of acetylene on palladium 211
Proń, A., see Hasik, M. 329
Qin, X., see Rong, C. 345
Reedijk, J., see Boelrijk, A.E.M. 63
Reedijk, J., see Gerli, A. 101
Ricci, M. and Slama, A.
Transfer hydrogenation of simple epoxides 1
Rindone, B., see Bassoli, A. 121
Rinker, R.G., see Mdleleni, M.M. 283
Rong, C., Qin, X. and Chendong, W.
On the hydrogenolysis of five membered heteroatom rings over MoS_2 345
Rooney, J.J., see Kelly, E.J. 19
Rovai, D., see Salvini, A. 77
Saito, M., see Tominaga, K.-I. 51
Saito, Y., see Makita, K. 143
Salvini, A., Frediani, P., Rovai, D., Bianchi, M. and Piacenti, F.
Reactivity of ruthenium carbonyl carboxylates under hydroformylation conditions 77
Sanković, M., see Kolarić, S. 247
Sasaki, Y., see Tominaga, K.-I. 51
Shih, J.-S., see Jane, Y.-S. 29
Sinisterra, J.V., see Martín, M.T. 397
Slaa, J.C., see Bond, G.C. 221
Slama, A., see Ricci, M. 1
Šunjić, V., see Kolarić, S. 247
Suwiński, J., see Krompiec, S. 303
Tomaselli, G.A., see Ballistreri, F.P. 295
Tominaga, K.-I., Sasaki, Y., Saito, M., Hagihara, K. and Watanabe, T.
Homogeneous Ru–Co bimetallic catalysis in CO_2 hydrogenation: the formation of ethanol 51
Toniolo, L., see Cavinato, G. 93
Toscano, R.M., see Ballistreri, F.P. 295
Tsang, S.C., see Claridge, J.B. 113
Tu, Y.-J., Chen, Y.-W. and Li, C.
Characterization of unsupported copper–chromium catalysts for ethanol dehydrogenation 179
Vavasori, A., see Cavinato, G. 93
Vega, J.M., see Vigara, A.J. 257
Verykios, X.E., see Zhang, Z.L. 229
Vigara, A.J., Bes, M.T., Vega, J.M. and Gómez-Moreno, C.
Purification of Fd–glutamate synthase from *Monoraphidium braunii* and characterization of a light-dependent activity assay 257
Watanabe, M., see Ohkubo, K. 5
Watanabe, T., see Tominaga, K.-I. 51
Weigert, F.J. and Mitchell, R.S.
Intermolecular transalkylation of methylanilines 191
Weigert, F.J. and Mitchell, R.S.
Some zeolites equilibrate all six dimethylanilines by 1,2-methyl shifts 201
Wong, K.-Y., see Lee, W.-O. 57
York, A.P.E., see Claridge, J.B. 113
Zhang, Z.L., Kladi, A. and Verykios, X.E.
Structural alterations of highly dispersed Rh/TiO_2 catalyst upon CO adsorption and desorption investigated by infrared spectroscopy 229

ELSEVIER

Journal of Molecular Catalysis 89 (1994) 411–418

JOURNAL OF MOLECULAR CATALYSIS

Subject Index

acetylene
Hydrogenation of acetylene on palladium 211
acid catalysis
Alkylation, isomerization and cracking activity of a novel solid acid, $AlCl_2(SG)_n$ 317
activity assay
Purification of Fd–glutamate synthase from *Monoraphidium braunii* and characterization of a light-dependent activity assay 257
aldohexoses
Heptamolybdate-ion catalyzed C(2) epimerization of D-mannose to D-glucose in acetonitrile–water mixtures; a kinetic study 247
alkylation
Alkylation, isomerization and cracking activity of a novel solid acid, $AlCl_2(SG)_n$ 317
alkylthiolation
Liquid-phase alkylthiolation reaction of phenol by dimethyldisulfide over zeolites 383
alkynes
Palladium-catalyzed hydroesterification of alkynes in the presence of *p*-toluenesulfonic acid under a normal pressure of carbon monoxide 151
allyl derivatives
Isomerization of 3-functional substituted propenes in the presence of ruthenium (III) 1,3-diketonates 303
alumina
Studies on ruthenium catalysts. Part 4: Hydrogenolysis of *n*-butane on Ru/Al_2O_3 catalysts–dependence of reaction kinetics on particle size and on pretreatment 221
Styrene hydrogenation on supported Pd, Fe and Pd-Fe/γ-Al_2O_3 catalysts 267
aluminium
Alkylation, isomerization and cracking activity of a novel solid acid, $AlCl_2(SG)_n$ 317
aluminum
Influence of ligands and cocatalyst on the activity in ethylene polymerization of soluble titanium complexes 41
benzyl alcohol
Electronic and kinetic isotope effects on the electrooxidation of benzyl alcohols by a monoxo ruthenium(V) complex of tetramethylcyclam 57
bimetallic catalysts
Homogeneous Ru–Co bimetallic catalysis in CO_2 hydrogenation: the formation of ethanol 51
butane
Studies on ruthenium catalysts. Part 4: Hydrogenolysis of *n*-butane on Ru/Al_2O_3 catalysts–dependence of reaction kinetics on particle size and on pretreatment 221
C_{60}
Studies on a new catalyst for the hydroformylation of alkenes using C_{60} as a ligand 113
carbohydrate oxidation
Oxidation of methyl- and octyl-α-D-glucopyranoside, catalyzed by high-valent ruthenium species; RuO_4, RuO_4^- and RuO_4^{2-}. 63
carbohydrates
Electrocatalytic activity of $[(bpy)_2(H_2O)Ru^{III}ORu^{III}(H_2O)(bpy)_2]^{4+}$ towards sugar oxidation 101
carbon dioxide
Enantioselectivity and reactivity of immobilized lipase in supercritical carbon dioxide 11
Homogeneous Ru–Co bimetallic catalysis in CO_2 hydrogenation: the formation of ethanol 51
carbon monoxide
Synthesis of γ-ketocarboxylic acids via reduction of γ-keto-α-hydroxycarboxylic acids with carbon monoxide catalyzed by a Pd–HCl system 93
Triruthenium dodecacarbonyl-catalyzed reductive carbonylation of nitroarenes: cyclization, carbon monoxide insertion and reduction. An overview 121

Palladium-catalyzed hydroesterification of alkynes in the presence of *p*-toluenesulfonic acid under a normal pressure of carbon monoxide 151
carbon monoxide (adsorption)
Structural alterations of highly dispersed Rh/TiO_2 catalyst upon CO adsorption and desorption investigated by infrared spectroscopy 229
carbonylation
Triruthenium dodecacarbonyl-catalyzed reductive carbonylation of nitroarenes: cyclization, carbon monoxide insertion and reduction. An overview 121
carbonyl complexes
Reactivity of ruthenium carbonyl carboxylates under hydroformylation conditions 77
carboxylates
Reactivity of ruthenium carbonyl carboxylates under hydroformylation conditions 77
carboxylic acids
Synthesis of γ-ketocarboxylic acids via reduction of γ-keto-α-hydroxycarboxylic acids with carbon monoxide catalyzed by a Pd–HCl system 93
ceria
Study of the CO–CeO_2 interaction in presence of highly dispersed rhodium 391
chiral photosensitizers
Stereoselective molecular recognition of enantiomeric cobalt(III) complexes by novel photosensitizers of helical ruthenium(II) complexes 5
chromic oxide
Characterization of unsupported copper–chromium catalysts for ethanol dehydrogenation 179
α-chymotrypsin
Effect of lyophilization and subsequent rehydration of immobilized α-chymotrypsin derivatives 397
CO adsorption
Study of the CO–CeO_2 interaction in presence of highly dispersed rhodium 391
cobalt
Homogeneous Ru–Co bimetallic catalysis in CO_2 hydrogenation: the formation of ethanol 51
Deuterium exchange of pyrrolidine, diethylamine and triethylamine over catalysts of Group VIII transition metals 365
copper
Characterization of unsupported copper–chromium catalysts for ethanol dehydrogenation 179
cracking
Alkylation, isomerization and cracking activity of a novel solid acid, $AlCl_2(SG)_n$ 317
crown ethers
Crown ether phase-transfer catalysts for polymerization of phenylacetylene 29
cyclization
Triruthenium dodecacarbonyl-catalyzed reductive carbonylation of nitroarenes: cyclization, carbon monoxide insertion and reduction. An overview 121
dehydrogenation
Photocatalytic dehydrogenation of methanol using $[IrH(SnCl_3)_5]^{3-}$ complex 143
Characterization of unsupported copper–chromium catalysts for ethanol dehydrogenation 179
Oxidative dehydrogenation of isobutyraldehyde to methacrolein over iron phosphate catalyst 371
deuterium
Mobility of transient olefinic intermediates during exchange reactions of paraffins with deuterium on metal catalysts 19
deuterium exchange
Deuterium exchange of pyrrolidine, diethylamine and triethylamine over catalysts of Group VIII transition metals 365
Diels–Alder reactions
Heterogeneous catalysis of asymmetric Diels–Alder reactions 159
diethylamine
Deuterium exchange of pyrrolidine, diethylamine and triethylamine over catalysts of Group VIII transition metals 365
1,3-diketonates
Isomerization of 3-functional substituted propenes in the presence of ruthenium (III) 1,3-diketonates 303
dimethyldisulphide
Liquid-phase alkylthiolation reaction of phenol by dimethyldisulfide over zeolites 383
dinuclear complexes
Electrocatalytic activity of $[(bpy)_2(H_2O)Ru^{III}ORu^{III}(H_2O)(bpy)_2]^{4+}$ towards sugar oxidation 101
electrooxidation
Electronic and kinetic isotope effects on the electrooxidation of benzyl alcohols by a monoxo ruthenium(V) complex of tetramethylcyclam 57
electrophilicity
Intermolecular transalkylation of methylanilines 191
enzymes
Enantioselectivity and reactivity of immobilized

lipase in supercritical carbon dioxide 11
epimerization
Heptamolybdate-ion catalyzed C(2) epimerization of D-mannose to D-glucose in acetonitrile–water mixtures; a kinetic study 247
epoxide reduction
Transfer hydrogenation of simple epoxides 1
ethanol
Homogeneous Ru–Co bimetallic catalysis in CO_2 hydrogenation: the formation of ethanol 51
Characterization of unsupported copper–chromium catalysts for ethanol dehydrogenation 179
Catalytic conversion of ethyl alcohol on polyaniline protonated with 12-tungstosilicic acid 329
ethylene
Influence of ligands and cocatalyst on the activity in ethylene polymerization of soluble titanium complexes 41
fatty acids
Co-metathesis reaction of methyl linoleate with ethene over WCl_6 catalyst 357
ferredoxin
Purification of Fd–glutamate synthase from *Monoraphidium braunii* and characterization of a light-dependent activity assay 257
flavin-mediated assay
Purification of Fd–glutamate synthase from *Monoraphidium braunii* and characterization of a light-dependent activity assay 257
formic acid
Influence of light intensity and membrane properties on the photocatalytic degradation of formic acid over TiO_2 ceramic membranes 165
FTIR
Structural alterations of highly dispersed Rh/TiO_2 catalyst upon CO adsorption and desorption investigated by infrared spectroscopy 229
glucopyranoside
Oxidation of methyl- and octyl-α-D-glucopyranoside, catalyzed by high-valent ruthenium species; RuO_4, RuO_4^- and RuO_4^{2-}. 63
glutamate synthase
Purification of Fd–glutamate synthase from *Monoraphidium braunii* and characterization of a light-dependent activity assay 257
graphics
Some zeolites equilibrate all six dimethylanilines by 1,2-methyl shifts 201
green algae
Purification of Fd–glutamate synthase from *Monoraphidium braunii* and characterization of a light-dependent activity assay 257
helicity
Stereoselective molecular recognition of enantiomeric cobalt(III) complexes by novel photosensitizers of helical ruthenium(II) complexes 5
heteroatom rings
On the hydrogenolysis of five membered heteroatom rings over MoS_2 345
heteropoly acids
Spectroscopic and structural properties of some molybdenum and tungsten polyoxoperoxo complexes. A comparison with mononuclear complexes 295
high-valent species
Oxidation of methyl- and octyl-α-D-glucopyranoside, catalyzed by high-valent ruthenium species; RuO_4, RuO_4^- and RuO_4^{2-}. 63
homogeneous catalysis
Oxidation of methyl- and octyl-α-D-glucopyranoside, catalyzed by high-valent ruthenium species; RuO_4, RuO_4^- and RuO_4^{2-}. 63
Electrocatalytic activity of $[(bpy)_2(H_2O)Ru^{III}ORu^{III}(H_2O)(bpy)_2]^{4+}$ towards sugar oxidation 101
hydrochloric acid
Synthesis of γ-ketocarboxylic acids via reduction of γ-keto-α-hydroxycarboxylic acids with carbon monoxide catalyzed by a Pd–HCl system 93
hydroesterification
Palladium-catalyzed hydroesterification of alkynes in the presence of *p*-toluenesulfonic acid under a normal pressure of carbon monoxide 151
hydroformylation
Reactivity of ruthenium carbonyl carboxylates under hydroformylation conditions 77
Studies on a new catalyst for the hydroformylation of alkenes using C_{60} as a ligand 113
hydrogenation
Homogeneous Ru–Co bimetallic catalysis in CO_2 hydrogenation: the formation of ethanol 51
Hydrogenation of acetylene on palladium 211
Styrene hydrogenation on supported Pd, Fe and Pd-Fe/γ-Al_2O_3 catalysts 267
hydrogenolysis
Studies on ruthenium catalysts. Part 4: Hydrogenolysis of *n*-butane on Ru/Al_2O_3 catalysts–dependence of reaction kinetics on

particle size and on pretreatment 221
On the hydrogenolysis of five membered heteroatom rings over MoS_2 345
immobilized enzymes
Effect of lyophilization and subsequent rehydration of immobilized α-chymotrypsin derivatives 397
intermediates
Mobility of transient olefinic intermediates during exchange reactions of paraffins with deuterium on metal catalysts 19
intermolecular shifts
Intermolecular transalkylation of methylanilines 191
intramolecular 1,2-shifts
Some zeolites equilibrate all six dimethylanilines by 1,2-methyl shifts 201
iridium
Photocatalytic dehydrogenation of methanol using $[IrH(SnCl_3)_5]^{3-}$ complex 143
iron
Styrene hydrogenation on supported Pd, Fe and Pd-Fe/γ-Al_2O_3 catalysts 267
Deuterium exchange of pyrrolidine, diethylamine and triethylamine over catalysts of Group VIII transition metals 365
Oxidative dehydrogenation of isobutyraldehyde to methacrolein over iron phosphate catalyst 371
isobutyraldehyde
Oxidative dehydrogenation of isobutyraldehyde to methacrolein over iron phosphate catalyst 371
isomerization
Isomerization of 3-functional substituted propenes in the presence of ruthenium (III) 1,3-diketonates 303
Alkylation, isomerization and cracking activity of a novel solid acid, $AlCl_2(SG)_n$ 317
kinetics
Electronic and kinetic isotope effects on the electrooxidation of benzyl alcohols by a monoxo ruthenium(V) complex of tetramethylcyclam 57
Intermolecular transalkylation of methylanilines 191
Some zeolites equilibrate all six dimethylanilines by 1,2-methyl shifts 201
light intensity
Influence of light intensity and membrane properties on the photocatalytic degradation of formic acid over TiO_2 ceramic membranes 165
lipase
Enantioselectivity and reactivity of immobilized lipase in supercritical carbon dioxide 11
lyophilization
Effect of lyophilization and subsequent rehydration of immobilized α-chymotrypsin derivatives 397
magnetic susceptibility
Study of the CO–CeO_2 interaction in presence of highly dispersed rhodium 391
membranes
Influence of light intensity and membrane properties on the photocatalytic degradation of formic acid over TiO_2 ceramic membranes 165
menthol derivatives
Heterogeneous catalysis of asymmetric Diels–Alder reactions 159
metathesis
Co-metathesis reaction of methyl linoleate with ethene over WCl_6 catalyst 357
methacrolein
Oxidative dehydrogenation of isobutyraldehyde to methacrolein over iron phosphate catalyst 371
methanol
Photocatalytic dehydrogenation of methanol using $[IrH(SnCl_3)_5]^{3-}$ complex 143
methylalumoxane
Influence of ligands and cocatalyst on the activity in ethylene polymerization of soluble titanium complexes 41
methylanilines
Intermolecular transalkylation of methylanilines 191
Some zeolites equilibrate all six dimethylanilines by 1,2-methyl shifts 201
molybdenum
Heptamolybdate-ion catalyzed C(2) epimerization of D-mannose to D-glucose in acetonitrile–water mixtures; a kinetic study 247
Spectroscopic and structural properties of some molybdenum and tungsten polyoxoperoxo complexes. A comparison with mononuclear complexes 295
On the hydrogenolysis of five membered heteroatom rings over MoS_2 345
mononuclear complexes
Spectroscopic and structural properties of some molybdenum and tungsten polyoxoperoxo complexes. A comparison with mononuclear complexes 295
Monoraphidium braunii
Purification of Fd–glutamate synthase from

Monoraphidium braunii and characterization of a light-dependent activity assay 257
montmorillonite clays
Heterogeneous catalysis of asymmetric Diels–Alder reactions 159
nickel
Deuterium exchange of pyrrolidine, diethylamine and triethylamine over catalysts of Group VIII transition metals 365
nitroarenes
Triruthenium dodecacarbonyl-catalyzed reductive carbonylation of nitroarenes: cyclization, carbon monoxide insertion and reduction. An overview 121
NMR spectroscopy
Spectroscopic and structural properties of some molybdenum and tungsten polyoxoperoxo complexes. A comparison with mononuclear complexes 295
olefins
Mobility of transient olefinic intermediates during exchange reactions of paraffins with deuterium on metal catalysts 19
Reactivity of ruthenium carbonyl carboxylates under hydroformylation conditions 77
Co-metathesis reaction of methyl linoleate with ethene over WCl_6 catalyst 357
organic solvent effect
Heptamolybdate-ion catalyzed C(2) epimerization of D-mannose to D-glucose in acetonitrile–water mixtures; a kinetic study 247
oxidation
Electrocatalytic activity of $[(bpy)_2(H_2O)Ru^{III}ORu^{III}(H_2O)(bpy)_2]^{4+}$ towards sugar oxidation 101
Oxidative dehydrogenation of isobutyraldehyde to methacrolein over iron phosphate catalyst 371
palladium
Synthesis of γ-ketocarboxylic acids via reduction of γ-keto-α-hydroxycarboxylic acids with carbon monoxide catalyzed by a Pd–HCl system 93
Palladium-catalyzed hydroesterification of alkynes in the presence of *p*-toluenesulfonic acid under a normal pressure of carbon monoxide 151
Hydrogenation of acetylene on palladium 211
Styrene hydrogenation on supported Pd, Fe and Pd-Fe/γ-Al_2O_3 catalysts 267
Deuterium exchange of pyrrolidine, diethylamine and triethylamine over catalysts of Group VIII transition metals 365
paraffins
Mobility of transient olefinic intermediates during exchange reactions of paraffins with deuterium on metal catalysts 19
phase-transfer catalysts
Crown ether phase-transfer catalysts for polymerization of phenylacetylene 29
phosphate
Oxidative dehydrogenation of isobutyraldehyde to methacrolein over iron phosphate catalyst 371
photocatalysis
Photocatalytic dehydrogenation of methanol using $[IrH(SnCl_3)_5]^{3-}$ complex 143
Influence of light intensity and membrane properties on the photocatalytic degradation of formic acid over TiO_2 ceramic membranes 165
platinum
Mobility of transient olefinic intermediates during exchange reactions of paraffins with deuterium on metal catalysts 19
Deuterium exchange of pyrrolidine, diethylamine and triethylamine over catalysts of Group VIII transition metals 365
polyaniline
Catalytic conversion of ethyl alcohol on polyaniline protonated with 12-tungstosilicic acid 329
polymerization
Influence of ligands and cocatalyst on the activity in ethylene polymerization of soluble titanium complexes 41
polymerization of phenylacetylene
Crown ether phase-transfer catalysts for polymerization of phenylacetylene 29
polyoxoperoxo complexes
Spectroscopic and structural properties of some molybdenum and tungsten polyoxoperoxo complexes. A comparison with mononuclear complexes 295
promoter
Characterization of unsupported copper–chromium catalysts for ethanol dehydrogenation 179
propenes
Isomerization of 3-functional substituted propenes in the presence of ruthenium (III) 1,3-diketonates 303
purification
Purification of Fd–glutamate synthase from *Monoraphidium braunii* and characterization of a light-dependent activity assay 257
pyridine derivatives
Stereoselective molecular recognition of

enantiomeric cobalt(III) complexes by novel photosensitizers of helical ruthenium(II) complexes 5
pyrrolidine
Deuterium exchange of pyrrolidine, diethylamine and triethylamine over catalysts of Group VIII transition metals 365
quantum yield
Influence of light intensity and membrane properties on the photocatalytic degradation of formic acid over TiO_2 ceramic membranes 165
reaction kinetics
Studies on ruthenium catalysts. Part 4: Hydrogenolysis of *n*-butane on Ru/Al_2O_3 catalysts–dependence of reaction kinetics on particle size and on pretreatment 221
reduction
Synthesis of γ-ketocarboxylic acids via reduction of γ-keto-α-hydroxycarboxylic acids with carbon monoxide catalyzed by a Pd–HCl system 93
rehydration
Effect of lyophilization and subsequent rehydration of immobilized α-chymotrypsin derivatives 397
rhodium
Studies on a new catalyst for the hydroformylation of alkenes using C_{60} as a ligand 113
Structural alterations of highly dispersed Rh/TiO_2 catalyst upon CO adsorption and desorption investigated by infrared spectroscopy 229
Deuterium exchange of pyrrolidine, diethylamine and triethylamine over catalysts of Group VIII transition metals 365
Study of the $CO–CeO_2$ interaction in presence of highly dispersed rhodium 391
ruthenium
Stereoselective molecular recognition of enantiomeric cobalt(III) complexes by novel photosensitizers of helical ruthenium(II) complexes 5
Homogeneous Ru–Co bimetallic catalysis in CO_2 hydrogenation: the formation of ethanol 51
Electronic and kinetic isotope effects on the electrooxidation of benzyl alcohols by a monoxo ruthenium(V) complex of tetramethylcyclam 57
Oxidation of methyl- and octyl-α-D-glucopyranoside, catalyzed by high-valent ruthenium species; RuO_4, RuO_4^- and RuO_4^{2-}. 63
Reactivity of ruthenium carbonyl carboxylates under hydroformylation conditions 77
Electrocatalytic activity of $[(bpy)_2(H_2O)Ru^{III}ORu^{III}(H_2O)(bpy)_2]^{4+}$ towards sugar oxidation 101
Triruthenium dodecacarbonyl-catalyzed reductive carbonylation of nitroarenes: cyclization, carbon monoxide insertion and reduction. An overview 121
Studies on ruthenium catalysts. Part 4: Hydrogenolysis of *n*-butane on Ru/Al_2O_3 catalysts–dependence of reaction kinetics on particle size and on pretreatment 221
Isomerization of 3-functional substituted propenes in the presence of ruthenium (III) 1,3-diketonates 303
solid acid
Alkylation, isomerization and cracking activity of a novel solid acid, $AlCl_2(SG)_n$ 317
solvent effects
Heptamolybdate-ion catalyzed C(2) epimerization of D-mannose to D-glucose in acetonitrile–water mixtures; a kinetic study 247
stereoselective quenching
Stereoselective molecular recognition of enantiomeric cobalt(III) complexes by novel photosensitizers of helical ruthenium(II) complexes 5
structural properties
Spectroscopic and structural properties of some molybdenum and tungsten polyoxoperoxo complexes. A comparison with mononuclear complexes 295
styrene
Styrene hydrogenation on supported Pd, Fe and $Pd-Fe/\gamma-Al_2O_3$ catalysts 267
sulphide
On the hydrogenolysis of five membered heteroatom rings over MoS_2 345
supercritical fluids
Enantioselectivity and reactivity of immobilized lipase in supercritical carbon dioxide 11
supported catalysts
Studies on ruthenium catalysts. Part 4: Hydrogenolysis of *n*-butane on Ru/Al_2O_3 catalysts–dependence of reaction kinetics on particle size and on pretreatment 221
Styrene hydrogenation on supported Pd, Fe and $Pd-Fe/\gamma-Al_2O_3$ catalysts 267
thermal stability
Studies on a new catalyst for the hydroformylation of alkenes using C_{60} as a ligand 113
thiophene

On the hydrogenolysis of five membered heteroatom rings over MoS_2 345
thiophenols
Liquid-phase alkylthiolation reaction of phenol by dimethyldisulfide over zeolites 383
tin(II)-coordinated complexes
Photocatalytic dehydrogenation of methanol using $[IrH(SnCl_3)_5]^{3-}$ complex 143
titania
Structural alterations of highly dispersed Rh/TiO_2 catalyst upon CO adsorption and desorption investigated by infrared spectroscopy 229
titanium
Influence of ligands and cocatalyst on the activity in ethylene polymerization of soluble titanium complexes 41
transalkylation
Intermolecular transalkylation of methylanilines 191
transfer hydrogenation
Transfer hydrogenation of simple epoxides 1
trialkyl
Influence of ligands and cocatalyst on the activity in ethylene polymerization of soluble titanium complexes 41
triethylamine
Deuterium exchange of pyrrolidine, diethylamine and triethylamine over catalysts of Group VIII transition metals 365
tungsten
Spectroscopic and structural properties of some molybdenum and tungsten polyoxoperoxo complexes. A comparison with mononuclear complexes 295
Co-metathesis reaction of methyl linoleate with ethene over WCl_6 catalyst 357
tungstosilicic acid
Catalytic conversion of ethyl alcohol on polyaniline protonated with 12-tungstosilicic acid 329
UV spectroscopy
Spectroscopic and structural properties of some molybdenum and tungsten polyoxoperoxo complexes. A comparison with mononuclear complexes 295
zeolites
Intermolecular transalkylation of methylanilines 191
Some zeolites equilibrate all six dimethylanilines by 1,2-methyl shifts 201
Liquid-phase alkylthiolation reaction of phenol by dimethyldisulfide over zeolites 383
zinc
Heterogeneous catalysis of asymmetric Diels–Alder reactions 159